

Title (en)

IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, AND PROGRAM

Title (de)

BILDVERARBEITUNGSVERFAHREN, BILDVERARBEITUNGSVORRICHTUNG UND PROGRAMM

Title (fr)

PROCÉDÉ DE TRAITEMENT D'IMAGE, DISPOSITIF DE TRAITEMENT D'IMAGE, ET PROGRAMME

Publication

EP 3764096 A4 20210428 (EN)

Application

EP 19764779 A 20190301

Priority

- JP 2018040309 A 20180307
- JP 2019007984 W 20190301

Abstract (en)

[origin: EP3764096A1] The present invention addresses the problem of providing an image processing method, an image processing device, and a program capable of quantitatively evaluating the expression level of a specific protein more accurately in a tissue specimen in which fluorescent staining of the specific protein by means of a fluorescent substance, and dye staining for visualizing a cell or a region of interest in a cell, have been carried out in a multiple manner. The image processing method includes: an input step of inputting a fluorescence image and a cell morphology image obtained by capturing images of a tissue specimen in which specific biological material has been stained using a fluorescent substance capable of binding to the specific biological material, and in which a cell has been stained using a dye capable of being observed under visible light; a brightness value calculating step of extracting from the fluorescence image a specific region containing a bright spot, and calculating a brightness value of the specific region; and a brightness value adjusting step of adjusting the brightness value of the specific region on the basis of dye information in the cell morphology image.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] US 2016275673 A1 20160922 - ICHITANI SHUJI [JP], et al
- [A] US 9547165 B2 20170117 - YANG CHUNXIN [US], et al
- [A] US 2018038796 A1 20180208 - ICHITANI SHUJI [JP]
- See references of WO 2019172097A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 3764096 A1 20210113; **EP 3764096 A4 20210428**; JP 7235036 B2 20230308; JP WO2019172097 A1 20210318; US 2021088444 A1 20210325; WO 2019172097 A1 20190912

DOCDB simple family (application)

EP 19764779 A 20190301; JP 2019007984 W 20190301; JP 2020504971 A 20190301; US 201916971036 A 20190301